total control®

# Owner's Manual

## MRX-4SEN

## Sensor Extender

URC™

Control the Experience.

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# Introduction

Thank you for purchasing the MRX-4SEN Sensor Extender. Expand your MRX Advanced Network System Controller sensor coverage beyond four ports by adding additional MRX-4SEN units throughout the home or office.

# Features and Benefits

- **Expand Sensor Coverage**
  Add one or more MRX-4SEN throughout your home or office to detect changes in a connected sensor, which may be used to trigger system events.

- **No Cables, No Mess, No Fuss**
  Connect a MRX-4SEN virtually anywhere in the home or office without the mess of cables while communicating over URC's 2.4GHz wireless connection.

- **Compact Size**
  The small size of the MRX-4SEN allows it to easily fit behind equipment or into places where a traditional base station would not.

# Parts Guide

The MRX-4SEN includes:

1 - MRX-4SEN Sensor Extender
1 - AC Power Adapter
4 - Mounting Screws
1 - Mounting Plate
1 - Owner's Manual

# Front, Rear, and Bottom Panel Descriptions

## Front Panel

The front panel consists of three indicator lights:

**Power LED:** The Power LED illuminates when the unit is powered.

**Status LED:** The Status LED color will vary depending upon its connected state:

- **Connected**: Illuminates green
- **Low Signal**: Illuminates orange
- **Not Connected**: Not illuminated

**Data LED:** The Data LED flashes as the MRX-4SEN transmits data to a MRX Advanced Network System Controller.

## Rear Panel

The rear panel consists of:

**DC 12V Power:** Plug in the included 12V DC 1A power supply.

**Sensor Inputs:** Connect the sensor's 3.5mm plug to an available port. The following URC sensors, with their respective model numbers, are compatible with the MRX-4SEN:

- Voltage Sensor SEN-VOLT
- Video Sensor SEN-VID
- Contact Closure Sensor SEN-CCLS
- Light Sensor SEN-LITE
- Current Sensor (Magnetic Field) SEN-CMF
- Audio Sensor SEN-AUD

**Mini USB connector:** For future firmware upgrade use!

## Bottom Panel

The bottom panel consists of:

**ZIGBEE Address Sticker:** The ZIGBEE Address (16 characters) identifies this wireless device when connected to the network.

**Serial Number Sticker:** The serial number, located at the bottom of the unit, uniquely identifies the product.

**Test button:** Press to refresh the signal and test the signal strength between the MRX Advanced Network System Controller and the MRX-4SEN. While testing, the Status LED will update and display its current connection setting. *(Refer to page 2 for Status LED information.)*

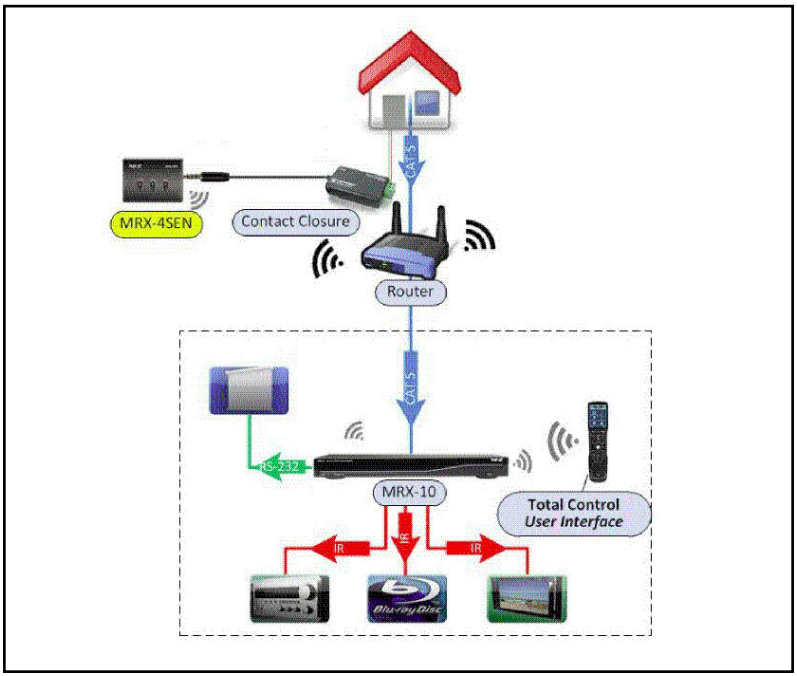
**Reset button:** Turns the unit OFF then ON again, and reconnects to the URC 2.4GHz RF signal.

# Network Installation

**WARNING!!** Before proceeding, a Custom Professional is required to install and configure your MRX-4SEN.

Connect the 3.5mm sensor plug to the rear of the MRX-4SEN. When a change in the sensor's state is detected, the MRX-4SEN sends a signal to the MRX Advanced Network System Controller and triggers a series of commands.

The example below showcases a voltage sensor connected to the home's doorbell and the MRX-4SEN. Whenever the door bell is pressed, a signal is sent over URC's RF 2.4GHz to the MRX Advanced Network System Controller. The MRX unit, previously programmed by the Custom Professional, will trigger a series of commands or an event to gain your attention. A programmed event, such as Watch Movie/TV, may pause the movie, mute the audio and display the front door's video camera.



# Specifications

**Sensor :** Four sensor ports support Video, Current, Contact Closure, Ambient Light, Audio, and Voltage sensors from URC.

**USB :** Mini USB for future firmware upgrade use.

**RF Range(radio frequency) :** 50 to 100 feet, depending upon the environment

**RF Frequency :** 2.405 ~ 2.480 GHz

**Weight :** 2.98oz

**Size :** 3.74″ X 2.7″ X 1.1″

**Power :** 12V DC 1A

# Limited Warranty Statement

**1. Limited Warranty and Disclaimers**

Universal Remote Control, Inc. ("URC") warrants that the URC equipment shall be free from defects in material and workmanship under normal usage for two (2) years from purchase when such is purchased from URC. **This limited warranty is valid only in the United States of America.** URC warrants that the software will substantially conform in any material respect to its functional specifications at the time of delivery. URC SHALL NOT BE LIABLE FOR OPERATIONAL, TECHNICAL OR EDITORIAL ERRORS AND/OR OMISSIONS MADE IN THE URC DOCUMENTATION. URC DOES NOT WARRANT THAT THE URC SOFTWARE IS BUG-FREE OR ERROR FREE OR THAT THERE ARE NO ERRORS/BUGS IN THE URC SOFTWARE.

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The warranty limitations and warranty disclaimers may not apply to end user in whole or in part, where such are restricted or excluded by applicable law and such shall apply to the maximum extent permitted by applicable law.

In the event of any warranty claim, URC will, at its sole option, repair the URC equipment using new or comparable rebuilt parts, or exchange the URC equipment for new or rebuilt equipment. **In the event of a defect, these are the end user's exclusive remedies.**

All the URC equipment returned for service, exchange or repair require an RGA number. To obtain an RGA number, you must complete a Return Request Form which you may obtain by calling (914) 835-4484 or contacting URC at returnrequest@universalremote.com. To obtain warranty service, end user must deliver the URC equipment, freight prepaid, in its original packaging or packaging affording adequate protection to URC at 420 Columbus Avenue, Valhalla, NY 10595. It is the end user's responsibility to backup any macro programming, artwork, software or other materials that may have been programmed into the unit. It is likely that such data, software, or other materials will be lost during service and URC will not be responsible for any such damage or loss. A dated purchase receipt, bill of sale, installation contract or other verifiable proof of purchase is required. For the URC equipment support and other important information, please visit URC's website available at www.universalremote.com or call the Customer Service Center at (914) 835-4484.

This limited warranty only covers the URC equipment issues caused by defects in material or workmanship during ordinary consumer use. It does not cover product issues caused by any other reason, including but not limited to product issues due to commercial use, acts of God, third-party installation, misuse, limitations of technology, or modification of or to any part of the URC equipment. This limited warranty does not cover the URC equipment sold as used, as is, refurbished, so called "B stock" or consumables (such as batteries). This limited warranty is invalid if the factory applied serial number has been altered or removed from the URC equipment. **This limited warranty specifically excludes the URC equipment sold by unauthorized resellers.**

With the exception of URC's IR-only, broad-based consumer remotes, none of URC's PC programmable remotes or any of our Total Control® whole-house equipment are authorized for online internet sales. Buying URC's PC

programmable remotes or any of our Total Control® whole-house equipment online means buying equipment that does not have a URC's limited warranty. Such equipment is not eligible for URC tech support or software support, either.

**2. URC'S Limitations of Liability**

IN NO EVENT SHALL URC BE LIABLE FOR INDIRECT, SPECIAL, INCIDENTAL, EXEMPLARY, PUNITIVE OR CONSEQUENTIAL DAMAGES OF ANY KIND OR LOSS OF PROFITS OR BUSINESS OPPORTUNITY, EVEN IF URC IS ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

IN NO EVENT SHALL URC BE LIABLE FOR LOSS OF OR DAMAGE TO DATA, COMPUTER SYSTEMS OR COMPUTER PROGRAMS. URC'S LIABILITY, IF ANY, FOR DIRECT DAMAGES OF ANY FORM SHALL BE LIMITED TO ACTUAL DAMAGES, NOT IN EXCESS OF AMOUNTS PAID BY END USER FOR THE URC EQUIPMENT.

IN NO EVENT SHALL URC BE LIABLE FOR ANY EVENTS BEYOND ITS CONTROL, INCLUDING ANY INSTANCE OF FORCE MAJEURE.
IN NO EVENT SHALL URC BE LIABLE FOR THE ACTS OR OMISSIONS OF END USER OR ANY THIRD PARTY.

THE LIMITATIONS OF LIABILITY MAY NOT APPLY TO END USER IN WHOLE OR IN PART, WHERE SUCH ARE RESTRICTED LIMITED OR EXCLUDED BY APPLICABLE LAW AND SUCH SHALL APPLY TO THE MAXIMUM EXTENT PERMITTED BY APPLICABLE LAW.

URC SHALL NOT BE HELD RESPONSIBLE FOR THE STATEMENTS MADE BY OTHERS.

SOME STATES OR JURISDICTIONS DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, OR ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS, SO THE ABOVE LIMITATIONS OR EXCLUSIONS MAY NOT APPLY TO END USER. THIS LIMITED WARRANTY GIVES END USER SPECIFIC LEGAL RIGHTS AND END USER MAY HAVE OTHER RIGHTS WHICH VARY FROM STATE TO STATE OR JURISDICTION TO JURISDICTION.

## End User Agreement

The terms and conditions of the End User Agreement available at www.universalremote.com/eua.php shall apply.

# Federal Communication Commission Interference Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one more of the following measures:

- ◆ Reorient or relocate the receiving antenna.
- ◆ Increase the separation between the equipment and receiver.
- ◆ Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- ◆ Consult the dealer or an experienced radio/TV technician for help.

**Warning!**

Changes or modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment.
Note : The manufacturer is not responsible for any Radio or TV interference caused by unauthorized modifications to this equipment. Such modifications could void the user's authority to operate the equipment.

**FCC Caution**

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Any changes or modifications not expressly approved by the party responsible for compliance could void the authority to operate equipment.

**Federal Communication Commission (FCC) Radiation Exposure Statement**

The device and the antenna for this device must be installed to ensure a minimum separation distance of 20 cm more from a person's body. Other operating configurations should be avoided.

# Declaration of Conformity

| | | |
|---|---|---|
| Company Name | : | OH SUNG ELECTRONICS CO., LTD. |
| Company Address | : | #181 GONG DAN-DONG, GUMI, GYEONG BUK, REPUBLIC OF KOREA |
| Contact Information | : | Phone: +82-54-468-7281, Fax: +82-54-461-8368 |
| Brand Name | : | UNIVERSAL remote control |
| Product Name | : | Sensor Extender |
| Model Name | : | MRX-4SEN |

This product herewith complies with the requirements of EMC Directive (2004/108/EC) and R&TTE Directive(1995/5/EC) issued by the Commission of the European Community

Compliance with these directives implies conformity to the following European Community

- EMC Directive
  - EN 55022 (2010)
  - EN 55024 (2010)
  - EN 61000-3-2 (2006) + A1 (2009) + A2 (2009)
  - EN 61000-3-3 (2008)
- R&TTE Directive
  - EN 60950-1 (2006) + A11 (2009) + A1 (2010) + A12 (2011)
  - ETSI EN 301 489-1 V1.9.2 (2011), ETSI EN 301 489-17 V2.1.1 (2012)
  - ETSI EN 300 328 V1.7.1 (2006)

List of test reports and/or certificate verified compliance with the standards above

- EMC Directive
  - Report No.
  - Testing Laboratory : Gumi College EMC Center
- R&TTE Directive
  - Certificate No.
  - Certificate Body : SIEMIC (No. 2200)

Date of issue : March 1, 2013

Name and signature of authorized person : Hak-Ki Kim

General Manager
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